



MAIN CHARACTERISTICS

Product Type:	Density meter based on the oscillating U-tube principle with preamplifier
Application:	Density and concentration measurement of liquids
Measuring accuracy:	up to $\pm 0.02\%$ ($\pm 0.2 \text{ kg/m}^3$, $\pm 0.0002 \text{ g/cm}^3$) of the measured value up to $\pm 0.01\%$ ($\pm 0.1 \text{ kg/m}^3$, $\pm 0.0001 \text{ g/cm}^3$) of the measured value (with special calibration)
Ex-approval:	Zone 1
Process temperature:	-40°C up to 150°C (up to 160°C on request)
Process pressure:	up to max. 100 bar depending on process connection (up to 160 bar on request)
Housing material:	stainless steel (1.4571)
Wetted parts:	stainless steel, Hastelloy, Tantalum, Inconel, Monel, others on request
Power supply:	NAMUR
Output / Display:	NAMUR (original frequency) and Pt100 for connection to a flow computer e.g. UR06
Process connection:	Flange acc. to DIN or ANSI
Special features:	Instrument version without seals

MEASUREMENT RANGE

Flow rate	0 up to 50 l/min
Density range	400 up to 3000 kg/m^3
Calibration range	400 up to 1450 kg/m^3
Repeatability	$\pm 0.005\%$ ($\pm 0.05 \text{ kg/m}^3$)

When installing in the bypass, ensure that there is sufficient flow in the unit so that the liquid sample in the unit is updated quickly enough (recommended approx. 0.3 l/min or approx. 0.01 bar differential pressure).

PROCESS CONNECTION

Flange DN10 PN40 (DIN 2545), DN10 PN100 (DIN2547)

or Class 150/300 RF ANSI B16.5 other pressure stages on request, as well as various food connections

OUTPUT SIGNALS

Connection: in 2-wire technology

Frequency density dependent, not linearized, the current is modulated onto the supply current, pulse-pause ratio 1:1, approx. 700-1400 Hz acc. to transducer type, linearization and temperature correction in the computer

4-wire technology via screw terminals;
cable enters via cable gland with M 20 x 1.5 or 1/2" NPT thread for pipe installation (conduit system)
(PT100 installed in DIMF)

EXAMPLES OF APPLICATION

- direct operating density or reference density measurement of corrosive liquids (incl. liquefied gases)
- Concentration measurement of 2-substance mixtures

Further information and product variants are available on request

